BRUHAT BANGALORE MAHANAGARA PALIKE

Name Of Work :Construction of Anganavadi Building at Srinivasapura in Kemprgowda ward no-01of Yelahanka Sub division

									Estimate Cost	2500000.00
Sl No	**Description of Item**	**Unit**	**No**	**L**	**B**	**D**	**Qty**	**Rate**	**Amount**	
1	Demolishing brick work manually/ by mechanical means including stacking of serviceable material and disposal of unserviceable material to the appropriate disposal area as per direction of Engineer-in-charge.(PWD SR 2021-22 Vol -2 Pg 163 item No. 19.7.3)									
	WALL									
	Hall	Cum	2	7.40	0.20	3.20	9.47			
		Cum	2	4.50	0.20	3.20	5.76			
	WC	Cum	2	1.00	0.10	3.20	0.64			
		Cum	1	1.70	0.10	3.20	0.54			
	Patition wall	Cum	1	2.10	0.10	3.20	0.67			
		Cum	1	1.17	0.10	3.20	0.37			
	Compound wall	Cum	1	2.00	0.20	1.07	0.43			
		Cum	1	4.00	0.20	1.07	0.86			
	Deduction									
	W	Cum	-1	1.20	0.20	0.90	-0.22			
	D	Cum	-1	0.90	0.20	2.00	-0.36			
	D1	Cum	-1	0.75	0.10	2.00	-0.15			
	Basic rate							789.00	✓	
	Area weightage 10%							78.9		
	Total						**18.02**	**867.90**		**15639.91**
2	Dismantling doors. windows and clerestory windows (steel or wood) shutter including chowkhats, architrave, holdfasts etc. complete and stacking to the appropriate disposal area as per direction of Engineerin-charge. (PWD SR 2021-22 Vol -2,Pg 164 Item No.19.12.2)									
	W	Sqm	1	1.20		0.9	1.08			
	D	Sqm	1	0.90		2.0	1.80			
	D1	Sqm	1	0.75		2.0	1.50			
	Basic rate							201.00	✓	
	Area weightage 10%							20.1		
	Total						**4.38**	**221.10**		**968.42**
3	Dismantling roofing including ridges, hips, valleys and gutters etc., and stacking the material to the appropriate disposal area as per direction of Engineer-in-charge. (PWD SR 2021-22 Vol -2 Pg 165 item no 19.27.2)									
	Hall roof	Sqm	1	7.4	4.5		33.30			
	WC roof	Sqm	1	1	1.7		1.70			
	Basic rate							388.00	✓	
	Area weightage 10%							38.8		
	Total						**35.00**	**426.80**		**14938.00**
4	Demolishing cement concrete manually/ by mechanical means including disposal of material to the appropriate disposal area as per direction of Engineer-in-charge (PWD SR 2021-22 Vol -2 Pg 163 Item no 19.2.1)									
	FLOOR									
	Hall	Cum	1	7.4	4.50	0.2	6.66			
	WC	Cum	1	1	1.70	0.2	0.34			

Sl No	Description of Item	Unit	No	L	B	D	Qty	Rate	Amount
	Basic rate							1274.00	
	Area weightage 10%							127.4	
	Total						**7.00**	**1401.40**	**9809.80**
5	Dismantling steel work manually/ by mechanical means in built up sections without dismembering and stacking to the appropriate disposal area as per direction of Engineer-in-charge.(PWD SR 2021-22 Vol -2 Pg 165 Item no 19.19)								
	EXISTING GATE	kg	1	1.00		1.4	42.00		
	Basic rate							2.00	
	Area weightage 10%							0.2	
	Total	**30**					**42.00**	**2.20**	**92.40**
6	Demolishing stone rubble masonry manually/ by mechanical means including stacking of serviceable material and disposal of unserviceable material to the appropriate disposal area as per direction of Engineerin-charge. (PWD SR 2021-22 Vol- 2 P.No -163 / I.No -19.9.2)								
	SSM								
	Hall	Cum	2	7.40	0.75	0.90	9.99		
		Cum	2	4.50	0.75	0.90	6.08		
	Compound wall	Cum	1	2.00	0.75	0.90	1.35		
		Cum	1	4.00	0.75	0.90	2.70		
	WC	Cum	1	1.70	0.75	0.90	1.15		
		Cum	1	1.00	0.75	0.90	0.68		
	Basic rate							1290.00	
	Area weightage 10%							129	
	Total						**21.94**	**1419.00**	**31129.31**
7	Earth work excavation by manual means for drains,canals, waste weir, draft, approach channels, key trenches, foundation of bridges and such simillar works in all kinds of soils , as per drawing and technical specifications, including setting out, shoring, strutting, barricading, caution lights, removal of stumps and other deleterious matter, excavated surface leveled and sides neatly dressed disposing off the excavated stuff or sorting & stacking the selected stuff for reuse in a radius of 50 m and lift upto 1.5 m including cost of labour, tools & other appurtenaces required to complete the work. Depth exceeding 1.5m, but not exceeding 3 m (PWD SR 2021-22 Vol -I Pg 5 item No. 1.4.2)								
	Footing								
		Cum	6	2.20	2.20	1.80	52.27		
		Cum	2	2.20	2.20	2.50	24.20		
	SSM Footing								
	Along long direction	Cum	2	7.60	0.60	0.90	8.21		
		Cum	1	1.90	0.60	0.90	1.03		
	Along Short direction	Cum	2	2.40	0.60	0.90	2.59		
		Cum	1	5.40	0.60	0.90	2.92		
	Basic rate							199.00	
	Area weightage 10%							19.9	
	Total						**91.21**	**218.9**	**19966.74**
8	Providing and Filling in foundation with granite / trap broken metal 100mm. and down size, with approved sand including hand packing, ramming, watering, including cost of all materials and labour with all lead and lift, complete as per specifications. Specification No. (PWD SR 2021-22 Vol -2 CORRIGENDA,item No. 6.4)								
	Footing								
		Cum	6	2.20	2.20	0.10	2.90		
		Cum	2	2.20	2.20	0.10	0.97		
	Basic rate							2561.00	
	Area weightage 10%							256.10	

Sl No	Description of Item	Unit	No	L	B	D	Qty	Rate	Amount
	Total						**3.87**	**2817.1**	**10907.81**
9	Providing and laying in position plain cement concrete for levelling course for all works in foundation. The granite/trap/basalt crushed graded coarse aggregates and fine aggregates as per relevant IS Codes machine mixed, laid in layers not exceeding 150 mm thickness, well compacted using plate vibrators, including all lead & lifts, cost of all materials of quality, labour, Usage charges of machineries, curing, and all the other appurtenances required to complete the work as per technical specifications. Mix 1:3:6 (M10) Using 40 mm nominal size graded crushed coarse aggregates.Specification (PWD SR 2021-22 Vol -I Pg 15 item no 2.1.3)								
	Footing								
		Cum	6	2.2	2.2	0.15	4.36		
		Cum	2	2.2	2.2	0.15	1.45		
	SSM Below								
	Along long direction	Cum	2	10.65	0.6	0.15	1.92		
		Cum	1	3	0.6	0.15	0.27		
	Along Short direction	Cum	2	4.2	0.6	0.15	0.76		
		Cum	1	5.4	0.6	0.15	0.49		
	Basic rate							5554.00	
	Area weightage 10%							555.4	
	Total						**9.24**	**6109.40**	**56432.53**
10	Providing and laying in position Reinforced cement concrete for all Sub structures of building, Irrigation works, Sub structure works of bridges, Drain works & other parallel works from 0.50m to 3.50 m height. The granite/trap/basalt crushed graded coarse aggregates and fine aggregates as per relevant IS Codes machine mixed with super plasticisers, laid in layers, well compacted using needle vibrators, providing weep holes wherever necesary, including all lead & lifts, cost of all materials of quality, confirming to the requirements of relevant IS codes, labour, Usage charges of machinery, curing and all other appurtenances required to complete the work as per technical specifications. (The cost of steel reinforcement & formwork to be paid separately) Mix 1:2:4 (M15) Using 20 mm nominal size graded crushed coarse aggregates (PWD SR 2021-22 Vol -I Pg 15 item no 2.1.3)								
	SSM Above								
	Along long direction	Cum	2	10.65	0.6	0.1	1.28		
		Cum	1	3	0.6	0.1	0.18		
	Along Short direction	Cum	2	4.2	0.6	0.1	0.50		
		Cum	1	5.4	0.6	0.1	0.32		
	Basic rate							6096.00	5554.
	Area weightage 10%							609.6	
	Total						**2.29**	**6705.60**	**15329.00**
11	Providing Size Stone masonry with hard stone in foundation & plinth with Cement mortar 1:6 (1 cement : 6 coarse sand) (Vol 2/ P No-9/ 1 no- 5.4 of PWD SR 2021-22)								
	SSM								
	Along long direction	Cum	2	10.65	0.60	0.6	7.67		
		Cum	1	3.00	0.60	0.6	1.08		
	Along Short direction	Cum	2	4.20	0.60	0.6	3.02		
		Cum	1	5.40	0.60	0.6	1.94		
	Basic rate							5352.00	
	Area weightage 10%							535.2	
	Total						**13.72**	**5887.2**	**80748.84**

Sl No	Description of Item	Unit	No	L	B	D	Qty	Rate	Amount
12	Filling available excavated earth (excluding rock) in trenches, plinth, sides of foundations and other similar works etc. in layers not exceeding 20cm in depth, consolidating each deposited layer by ramming and watering, lead up to 50 m and lift upto 1.5 m. ((PWD SR 2021-22 Vol- I P.No -7 / I.No -1.9)								
	Filling Available of Excavated Earth								
	Earth Work Excavation	Cum	From Item No. 7				91.21		
	PCC for Footing	Cum	From Item No. 8&9				-11.52		
	Filling in foundation with granite / trap broken metal	Cum	From Item No. 8				-3.87		
	SSM Footing	Cum	From Item No. 11				-13.72		
	Footing Concrete Quantity	Cum	From Item No. 15				-15.49		
	Basic rate							204.00	✓
	Area weightage 10%							20.4	
	Total						**46.62**	**224.40**	**10460.41**
13	**Loading and Unloading of Stone Boulder**/Stone aggregates/ Sand/Kankar/Moorum. (Tipper 14 m3) (PWD SR 2021-22 Vol-III Page No.3, Item No.1.1C)								
	Excavated Earth	Cum					91.21		
	Filling Available of Excavated Earth						-46.62		
	Basic rate							74.00	✓
	Area weightage 10%							**7.40**	
	Total						**44.60**	**81.40**	**3630.36**
14	Cost of Haulage Excluding Loading and Unloading Taking output 10 t load and lead 10 km = 100 t.km (PWD SR 2021-22 Vol-III Page No.3, Item No.1.4A)								
		t.Km		44.60		1.280	57.0867		
	Basic rate							**12.00**	✓
	8Km 12*8							**96.00**	
	Area weightage 10%							**9.60**	
	Total						**57.09**	**105.60**	**6028.36**
15	Providing and laying in position Reinforced cement concrete for all **Sub structures of building,** Irrigation works, Sub structure works of bridges, Drain works & other parallel works from 0.50m to 3.50 m height. The granite/ trap/ basalt crushed graded coarse aggregates and fine aggregates as per relevant IS Codes machine mixed with super plasticisers, laid in layers, well compacted using needle vibrators, providing weep holes wherever necesary, including all lead & lifts, cost of all materials of quality, confirming to the requirements of relevant IS codes, labour, Usage charges of machinery, curing and all other appurtenances required to complete the work as per technical specifications. (The cost of steel reinforcement & formwork to be paid separately) **M25** Design Mix Using 20 mm nominal size graded crushed coarse aggregates (Vol 2/ P No-17/ I no- 2.4.3 of PWD SR 2021-22) volume -I								
Footings									
	Cum	6	2.2	2.2	0.4	11.62			
	Cum	2	2.2	2.2	0.4	3.87			
Column below plinth									
	Cum	6	0.2	0.45	0.60	0.32			
	Cum	2	0.2	0.45	1.40	0.25			
Plint Beam									
	Cum	2	10.65	0.2	0.45	1.92			

Sl No	Description of Item	Unit	No	L	B	D	Qty	Rate	Amount
		Cum	3	4.20	0.2	0.45	1.13		
	Basic rate							5992.00	
	Add 8% For Shuttering							479.36	
	Sub Total							**6471.36**	
	Area weightage 10%							647.14	
	Total						**19.12**	**7118.50**	**136070.05**
16	Providing and laying in position Reinforced cement concrete for all **Super structures of building** , Road works, Water works, Irrigation works & super structure works of bridges upto 3.50 m height. The granite/ trap/ basalt crushed graded coarse aggregates and fine aggregates as per relevant IS Codes machine mixed with super plasticisers laid in layers, well compacted using needle vibrators. The cost includes all lead & lifts, cost of all materials, quality confirming to the requirements of relevant IS codes , labour, Usage charges of machinery, curing and all other appurtenances required to complete the work as per technical specifications. (The cost of steel reinforcement, dowel bars & formwork to be paid separately) **M25 Design Mix** Using 20 mm nominal size graded crushed coarse aggregates (Vol 2/ P No-17/ I no- 2.5.2 of PWD SR 2021-22) Volume-II. 2.5.1 I.R.									
	Ground Floor								
	Columns upto beam bottom								
		Cum	6	0.2	0.45	3.00	1.62		
		Cum	2	0.2	0.45	3.00	0.54		
	Basic rate							6186.00	
	Add 10% for Shuttering							618.60	
	Sub total							6804.60	
	Area weightage 10%							680.46	
	Total						**1.62**	**7485.06**	**12125.80**
	Ground Floor								
	Slab	Cum	1	15	4.6	0.15	10.35		
	Slab infront of staircase	Cum	1	2.15	0.8	0.15	0.26		
	Deduction								
	Staircase	Cum	-1	2.15	4.6	0.15	-1.48		
	Basic rate							6186.00	
	Add 20% for Shuttering							1237.20	
	Sub total							7423.20	
	Area weightage 10%							742.32	
	Total						**9.12**	**8165.52**	**74506.29**
	Beams								
	Along long direction	Cum	2	13.65	0.30	0.45	3.69		
	Along Short direction	Cum	3	4.20	0.30	0.45	1.70		
	Basic rate							6186.00	
	Add 20% for Shuttering							1237.20	
	Sub total							7423.20	
	Area weightage 10%							742.32	
	Total						**5.39**	**8165.52**	**43983.57**
	Lintel								
	Along long direction	Cum	2	10.65	0.2	0.2	0.85		
		Cum	1	5.00	0.1	0.2	0.10		
		Cum	1	1.90	0.1	0.2	0.04		

Sl No	Description of Item	Unit	No	L	B	D	Qty	Rate	Amount
	Along Short direction	Cum	2	4.20	0.2	0.2	0.34		
		Cum	1	1.20	0.1	0.20	0.02		
		Cum	2	3.00	0.1	0.20	0.12		
	Basic rate							6186.00	
	Add 20% for Shuttering							1237.20	
	Sub total							7423.20	
	Area weightage 10%							742.32	
	Total						**1.47**	**8165.52**	**12003.31**
	Staircase								
	Waist slab	Cum	2	4.00	1	0.175	1.40		
	Steps	Cum	23	1.00		0.022	0.51		
				triangular area					
	Landing slab	Cum	1	1.23	2.15	0.175	0.46		
								6186.00	
	Basic rate							1237.20	
	Add 20% for Shuttering							7423.20	
	Sub total							742.32	
	Area weightage 10%						**2.37**	**8165.52**	**19342.38**
	Total								
	Chejja	Cum	9.00	1.20	0.30	0.10	0.32		
		Cum	1.00	1.00	0.30	0.10	0.03		
	Basic rate							6186.00	
	Add 45% for Shuttering							2783.70	
	Sub total							8969.70	
	Area weightage 10%							896.97	
	Total						**0.35**	**9866.67**	**3492.80**
17	Providing Thermo-Mechanically Treated bars of grade Fe-550 Steel reinforcement for R.C.C. work including straightening, cutting, bending, placing in position, binding and anchoring to adjacent members whereever necessary complete as per Design including cost of material, labour, usage charges complete as per specifications. (The laps and wastages shall not be measured separately) (Vol- I P.No. 84/I.No. 11.32 of PWD SR 2021-22 1st Corrigenda) Volume - I).								
	Ground Floor								
	Footing	Cum	Concrete Quantity				15.49		
		kg	Steel assumed 100 Kg/Cum of Concrete				1548.8		
	Column	Cum	Concrete Quantity				2.20		
		kg	Steel assumed 130 Kg/Cum of Concrete				285.48		
	Beam	Cum	Concrete Quantity				8.44		
		kg	Steel assumed 120 Kg/Cum of Concrete				1012.5		
	Roof Slab	Cum	Concrete Quantity				9.12		
		kg	Steel assumed 100 Kg/Cum of Concrete				912.5		

Sl No	Description of Item	Unit	No	L	B	D	Qty	Rate	Amount
	Lintel	Cum	Concrete Quantity				1.47		
		kg	Steel assumed 100 Kg/Cum of Concrete				147.0		
	Chejja	Cum	Concrete Quantity				0.35		
		kg	Steel assumed 100 Kg/Cum of Concrete				35.4		
	Staircase	Cum	Concrete Quantity				2.37		
		kg	Steel assumed 125 Kg/Cum of Concrete				296.1		
	Basic rate							96.00	
	Area weightage 10%							9.60	
	Total						**4237.73**	**105.6**	**447504.12**
18	Providing and constructing load bearing wall with Solid Concrete blocks of size 400x200x200mm having block density more than 1800kg/m3 and minimum compressive strength of 4.00 N/mm2 conforming to IS 2185 (Part - I) - 2005 and constructed with CM 1:4 as per IS 2572:2005 including cost of all materials, labour, scaffolding and curing, usage charges of machinery etc complete as per specifications. (Vol 2/ P No-17/ I no-6.32 of PWD SR 2021-22)								
	Ground Floor								
	Along long direction	Sqm	2	13.65		3.00	81.90		
	Along Short direction	Sqm	2	4.20		3.00	25.20		
	Compound Wall								
		Sqm	1	4.4		1.50	6.60		
		Sqm	1	2.8		1.50	4.20		
	Deduction								
	D1	Sqm	-1	2.1		2.40	-5.04		
	W	Sqm	-9	1.2		1.20	-12.96		
	V	Sqm	-1	0.75		0.60	-0.45		
	Lintel	Sqm	-2	13.65		0.20	-5.46		
		Sqm	-2	4.2		0.20	-1.68		
	Basic rate							1196.00	
	Area weightage 10%							119.60	
	Total						**92.31**	**1315.60**	**121443.04**
19	Providing and constructing load bearing wall with Solid Concrete blocks of size 400x100x200mm having block density more than 1800kg/m3 and minimum compressive strength of 4.00 N/mm2 conforming to IS 2185 (Part - I) - 2005 and constructed with CM 1:4 as per IS 2572:2005 including cost of all materials, labour, scaffolding and curing, usage charges of machinery etc complete as per specifications. (Vol 2/ P No-17/ I no-6.34 of PWD SR 2021-22)								
	Ground Floor								
	Along long direction	Sqm	1	3.2		3.25	10.40		
		Sqm	2	1.9		3.25	12.35		
	Along Short direction	Sqm	2	3.1		3.00	18.60		
			1	1.2		3.00	3.60		
	Deduction								
	D2	Sqm	-2	0.90		2.10	-3.78		
	D3	Sqm	-2	0.75		2.10	-3.15		
	Basic Rate							940.00	
	Area weightage 10%							94.00	

Sl No	Description of Item	Unit	No	L	B	D	Qty	Rate	Amount
	Total						**38.02**	**1034.00**	**39312.68**
20	Providing and constructing load bearing wall with Solid Concrete blocks of size 400x150x200mm having block density more than 1800kg/m3 and minimum compressive strength of 4.00 N/mm2 conforming to IS 2185 (Part - I) - 2005 and constructed with CM 1:4 as per IS 2572:2005 including cost of all materials, labour, scaffolding and curing, usage charges of machinery etc complete as per specifications. (Vol 2/ P No-17/ I no-6.33 of PWD SR 2021-22)								
	Parapit Wall								
		Sqm	2	15.00		1.20	36.00		
		Sqm	2	4.60		1.20	11.04		
	Basic Rate							1067.00	✓
	Area weightage 10%							106.70	
	Total						**47.04**	**1173.70**	**55210.85**
21	Providing 20 mm cement plaster of mix :1:4 (1 cement: 4 fine sand) to brick/stone masonary including rounding off corners wherever required smooth rendering, providing and removing scaffolding, including cost of materials, labour, curing complete as per specifications and as per directions of Engineer-in-charge (Vol 2/ P No-41/ I no- 8.3.1 of PWD SR 2021-22)								
	External Plastering								
	Along long Direction	Sqm	2	12		3.6	86.4		
	Along Short Direction	Sqm	2	4.6		3.6	33.12		
	Chejja	Sqm	18	1.20	0.30		6.48		
		Sqm	2	1.00	0.30		0.6		
	Compound Wall	Sqm	2	4.40		1.50	13.2		
		Sqm	2	2.80		1.50	8.4		
	Compound Wall uppre face	Sqm	1	4.40		0.2	0.88		
		Sqm	1	2.80		0.2	0.56		
	Parapit Wall	Sqm	4	15		1.2	72		
		Sqm	4	4.6		1.2	22.08		
	Parapit Wall Upper Face	Sqm	2	15		0.15	4.5		
		Sqm	2	4.6		0.15	1.38		
	Staircase								
	Landing Slab	Sqm	1	1.23	2.15		2.64		
	Waist slab	Sqm	2	4.00	1.00		8		
	Waist slab side face	Sqm	3	4.00	0.175		2.1		
	Triangle Area(riser & Thread)	Sqm	35			0.023	0.79		
				Triangle Area					
	Deduction								
	D1	Sqm	-1	2.1		2.4	-5.04		
	W	Sqm	-9	1.2		1.2	-12.96		
	Basic Rate							299.00	✓
	Area weightage 10%							29.90	
	Total						**245.13**	**328.90**	**80623.91**
22	Providing 18 mm cement plaster in two coats under layer 12 mm thick cement plaster with cement mortar 1:5 (1 cement : 5 coarse sand) and a top layer 6 mm thick cement plaster with cement mortar 1:3 (1 cement: 3 coarse sand) finished rough with sponge to brick masonry including rounding off corners wherever required smooth rendering, providing and removing scaffolding, including cost of materials, labour, curing complete as per specifications and as per directions of Engineer-in-charge. (PWD SR 2021-22 Vol -II Pg 42 item no 8.9)								
	Internal Plastering								
	Along long Direction	Sqm	1	11.40		3.45	39.33		

Sl No	Description of Item	Unit	No	L	B	D	Qty	Rate	Amount
		Sqm	1	11.60		3.45	40.02		
	Along Short Direction	Sqm	2	4.20		3.45	28.98		
		Sqm	4	3.1		3.45	42.78		
		Sqm	2	1.2		3.45	8.28		
		Sqm	2	3		3.45	20.7		
		Sqm	4	1.9		3.45	26.22		
	Deduction								
	D2	Sqm	-2	0.9		2.1	-3.78		
	D3	Sqm	-2	0.75		2.1	-3.15		
	W	Sqm	-9	1.2		1.2	-12.96		
	V	Sqm	-1	0.75		0.6	-0.45		
	Basic Rate							322.00	
	Area weightage 10%							32.20	
	Total						**185.97**	**354.20**	**65870.57**
23	Providing 12mm thick cement plaster in floating coat of neat cement of mix :1:4 to Brick masonry including rounding off corners wherever reduired smooth rendering, providing and removing scaffolding, including cost of materials, labour, curing complete as per specifications and as per diredtion of Engineer-in-charge(PWD SR 2021-22 Vol -II Pg 41 item no 8.4.2)								
	Ground Floor								
	Ceiling								
	Hall	Sqm	1	6.8	4.2		28.56		
	Kitchen	Sqm	1	3	3.1		9.30		
	Store Room	Sqm	1	1.9	1.8		3.42		
	Toilet	Sqm	2	0.9	1.2		2.16		
	Passage in front of toilet & kitchen	Sqm	1	5.1	1		5.10		
	Basic rate							262.00	
	Area weightage 10%							26.20	
	Total						**48.54**	**288.20**	**13989.23**
24	Providing and applying white cement based putty of average thickness 1 mm, of approved brand and manufacturer, over the plastered wall surface to prepare the surface even and smooth complete as per specifications and as per directions of Engineer in charge.(PWD SR 2021-22 Vol -II Pg 50 item no 8.51)								
	for Internal plastered portions	Sqm	1	same as Internal plastering			185.97		
	ceiling	Sqm	1	same as plastering for beam + ceiling			48.54		
	Basic rate							83.00	
	Area weightage 10%							8.3	
	Total						**234.51**	**91.30**	**21410.76**
25	Painting with synthetic enamel paint of approved brand and manufacture to give an even shade :Two coats on new work after thoroughly brooming the surface to remove all dirt, dust, mortar drops and foreign matter including preparing the surface even and sand paper smooth, cost of materials, labour complete as per specifications and as per directions of Engineer-in-charge. (PWD SR 2021-22 Vol -II Pg 48 item no 8.40)								
	Internal painting	Sqm	Same as Internal plastering				234.51		
	Basic rate							90.00	
	Area weightage 10%							9	
	Total						**234.51**	**99.00**	**23216.49**

Sl No	Description of Item	Unit	No	L	B	D	Qty	Rate	Amount
26	Finishing walls with Premium Acrylic Smooth exterior paint with Silicone additives of required shade: New work (Two coats applied @ 1.43 ltr/10 m² over and including priming coat of exterior primer applied@ 2.20 kg/10 m²) with paint of approved quality to give an even shade, after thoroughly brooming the surface to remove all dirt, dust, mortar drops and foreign matter including preparing the surface even and sand paper smooth, cost of materials, labour complete as per specifications and as per directions of Engineer-in-charge.(PWD SR 2021-22 Vol -II Pg 46 item no 8.31)								
	External painting								
	Ground Floor	Sqm	Same as External plastering				245.13		
	Total							132.00	
	Area weightage 10%							13.20	
	Total						**245.13**	**145.20**	**35593.17**
27	Providing and laying Cement concrete flooring 40 mm thick with 20mm nominal size stone aggregate using 1:2:4 (1 cement : 2 coarse sand : 4 graded stone aggregate) finished with a floating coat of neat cement, including cement slurry complete.(PWD SR 2021-22 Vol -II Pg 59 item no 9.1)								
	Ground Floor								
	Hall	Sqm	1	6.8	4.2		28.56		
	Kitchen	Sqm	1	3	3.1		9.30		
	Store Room	Sqm	1	1.9	1.8		3.42		
	Toilet	Sqm	2	0.9	1.2		2.16		
	Passage in front of toilet & kitchen	Sqm	1	5.1	1		5.10		
	Passage out side the building	Sqm	1	5.4	2.8		15.12		
		Sqm	1	12	0.8		9.60		
		Sqm	1	5.4	0.8		4.32		
	Deduction								
	Sump	Sqm	-1	1.83	1.56		-2.85		
								400.00	
	Basic rate							40	
	Area weightage 10%						**74.73**	**440.00**	**32879.09**
	Total								
28	Providing and laying in position Reinforced cement concrete for all Sub structures of building, Irrigation works, Sub structure works of bridges, Drain works & other parallel works from 0.50m to 3.50 m height. The granite/trap/basalt crushed graded coarse aggregates and fine aggregates as per relevant IS Codes machine mixed with super plasticisers, laid in layers, well compacted using needle vibrators, providing weep holes wherever necesary, including all lead & lifts, cost of all materials of quality, confirming to the requirements of relevant IS codes, labour, Usage charges of machinery, curing and all other appurtenances required to complete the work as per technical specifications. (The cost of steel reinforcement & formwork to be paid separately) Mix 1:2:4 (M15) Using 20 mm nominal size graded crushed coarse aggregates(PWD SR 2021-22 Vol -I Pg 17 item no 2.4.1)								
	Hall	Cum	1	6.8	4.2	0.1	2.86		
	Kitchen	Cum	2	3	3.1	0.1	1.86		
	Store Room	Cum	3	1.9	1.8	0.1	1.03		
	Toilet	Cum	4	0.9	1.2	0.1	0.43		
	Passage in front of toilet & kitchen	Cum	5	5.1	1	0.1	2.55		
	Passage out side the building	Cum	1	5.4	2.8	0.1	1.51		
		Cum	1	12	0.8	0.1	0.96		
		Cum	1	5.4	0.8	0.1	0.43		

Sl No	Description of Item	Unit	No	L	B	D	Qty	Rate	Amount
	Deduction					0.1	0.10		
	Sump	Cum	-1	1.83	1.56	0.1	-0.29		
	Basic rate							5880.00	✓
	Area weightage 10%							588	
	Total						**11**	**6468.00**	**74010.22**
29	Providing and laying Polished Granite stone flooring in required design and patterns, in linear as well as curvilinear portions of the building all complete as per the architectural drawings with 18 mm thick stone slab over 20 mm (average) thick base of cement mortar 1:4 (1 cement : 4 coarse sand) laid and jointed with cement slurry and pointing with white cement slurry admixed with pigment of matching shade including rubbing , curing and polishing etc. all complete as specified and as directed by the Engineer-in-Charge. ** Polished Granite stone slab Black, Cherry Red, Brown, Cat Eye, River Pink or equivalent. (PWD SR 2021-22 Vol -II Pg 63 item no 9.24)								
	Hall	Sqm	1	6.80	4.20		28.56		
	Kitchen	Sqm	1	3.10	3.00		9.30		
	Store Room	Sqm	1	1.90	1.80		3.42		
	Passage in front of kitchen & toilet	Sqm	1	5.10	1.00		5.10		
	Staircase								
	Riser	Sqm	24	1.00	0.15		3.60		
	Thread	Sqm	23	1.00	0.30		6.90		
	Landing	Sqm	1	2.15	1.00		2.15		
	Skrtings								
	Hall	Sqm	2	4.20		0.10	0.84		
		Sqm	2	6.80		0.10	1.36		
	Kitechen	Sqm	2	3.10		0.10	0.62		
		Sqm	2	3.00		0.10	0.60		
	Store room	Sqm	2	1.80		0.10	0.36		
		Sqm	2	1.90		0.10	0.38		
	Passage	Sqm	1	1.00		0.10	0.10		
		Sqm	2	5.1		0.10	1.02		
	Deductions								
	D1	Sqm	-1	1.00		0.10	-0.10		
	D2	Sqm	-2	0.90		0.10	-0.18		
	D3	Sqm	-2	0.75		0.10	-0.15		
	Basic rate							2870.00	✓
	Area weightage 10%							287.00	
	Total						**63.88**	**3157.00**	**201669.16**
30	Ceramic tile flooring, with under layer 12 mm thick cement mortar 1:4 (1cement: 4 coarse sand), with joints not exceeding 5 mm, including filling the gaps with ordinary cement mixture & mixing with synthetic polyester fibre, triangular in shape having specific gravity of 1.34 to 1.40, cross section size ranging from 10 to 40 micron & length upto 6 mm , mixing fibre @ 125 g per 50 kg of cement in cement mortar, including providing and mixing water proofing material in mortar @ 1 kg per 50 kg of cement, all complete as per direction of Engineer-in-charge.(Vol 2/ P No-61/ I no-9.15 of PWD SR 2021-22)								
	For Toilet								
	Floor	Sqm	2	1.20	0.90		2.16		
	Basic rate							577.00	✓

Sl No	Description of Item	Unit	No	L	B	D	Qty	Rate	Amount
	Area weightage 10%							57.70	
	Total						**2.16**	**634.70**	**1370.95**
31	Providing Mathi/Nandi wood frames of doors, windows, clerestory windows, ventilators and other frames, wrought, framed or assembled including making plaster groves (excluding cost of cement concrete and side clamps), but including cost of materials, labour, usage charges complete as per specifications. (PWD SR 2021-22 Vol -II Pg 100 item no 12.12)								
	Ground Floor								
	D1	Cum	1	6.80	0.15	0.125	0.13		
	D2	Cum	2	5.10	0.15	0.125	0.19		
	D3	Cum	2	4.95	0.15	0.125	0.19		
	Basic rate							75344.00	✓
	Area weightage 10%							7534.4	
	Total						**0.50**	**82878.4**	**41801.79**
32	Providing and fixing in position fully panelled Matti/Nandi wood shutters for doors with, stiles and rails of 35mm. thick with bottom and lock rails 180mm wide top rail and stiles 100mm wide as per drawing and panels of 25mm thick including cost of materials, labour, usage charges complete as per specifications. (excluding cost of fixtures)(PWD SR 2021-22 Vol -II Pg 100 item no 12.18)								
	Ground Floor								
	D1	Sqm	1	1		2.4	2.4		
	D2	Sqm	2	0.9		2.1	3.78		
	D3	Sqm	2	0.75		2.1	3.15		
	Basic rate							4026.00	✓
	Area weightage 10%							402.60	
	Total						**9.33**	**4428.60**	**41318.84**
33	Providing and fixing M.S. grills of required pattern in frames of windows etc. with M.S. flats, square or round bars etc. including priming coat with approved steel primer all complete. Fixed to openings / wooden frames with rawl plugs screws etc. (PWD SR 2021-22 Vol -II Pg 85 item no 11.34B)								
	W	Kg	9.00			30.24	272.16		
			21kg per sqm 1.2*1.2*21=30.24						
	V	Kg	1.00			9.45	9.45		
			21kg per sqm 0.75*0.6*21=9.45						
	Basic rate							143.00	✓
	Area weightage 10%							14.30	
	Total						**281.61**	**157.30**	**44297.25**
34	Providing & fixing of 2-track x 2-panel sliding windows made out of multi chambered UPVC(Matching to RAL-9016) sections and with minimum TiO2(Titanium Dioxide) at 6PHR with TPE(Thermo Plastic Elastomer) and lead free, gaskets -grey colour having isolated drainage and reinforced with Galvanized Iron profile through-out the window frame. The outer frame having an overall size of 108mm width x 45mm height with reinforcement of 1mm thickness and Sash with overall size of 39mm x 75mm with GI reinforcement of 2mm and mesh sash of size 37mm x 58mm. Coextruded Glazing bead for fixing of glass shall be of size 20mm x 24 mm. Windows shall be provided with 6mm plain float glass, standard hardware& Multi point locking system with touch lock. Wall thickness of frame & sash shall be of 2mm-2.5mm. Maximum possible size – 2419mm x 2200mm. (The cost is inclusive of all fixtures and separate charges for minor T&P's shall not be made). (PWD SR 2021-22 Vol -II Pg 111 item no 12.89)								
	W	Sqm	9	1.2		1.2	12.96		

Sl No	Description of Item	Unit	No	L	B	D	Qty	Rate	Amount
	Basic rate							6722.00	
	Area weightage 10%							672.20	
	Total						**12.96**	**7394.20**	**95828.83**
35	Providing & fixing of louvered ventilator made out of multi chambered UPVC(Matching to RAL-9016) sections and with minimum TiO2(Titanium Dioxide) at 6PHR with TPE(Thermo Plastic Elastomer) and lead free with gaskets -grey colour having isolated drainage and reinforced with Galvanized Iron profile through-out the ventilator frame. The frame having overall size of 39mm x 39mm with GI reinforcement of 1mm thickness. Louver clip in Aluminium (powder coated in white) will be used on the frame along with plastic parts for fixing the 4 mm pin head glass. Wall thickness of frame shall be 2mm.Maximum possible size – 1000mm x 1000mm. (The cost is inclusive of all fixtures and separate charges for minor T&P's shall not be made). (PWD SR 2021-22 Vol -II Pg 110 item no 12.85)								
	V	Sqm	1	0.75		0.6	0.45		
	Basic rate							4870.00	
	Area weightage 10%							487.00	
	Total						**0.45**	**5357.00**	**2410.65**
36	Painting Steel work with Deluxe Multi Surface Paint to give an even shade. Two coat applied @ 0.90 ltr/10 m² over an under coat of primer applied @ 0.80 ltr/10 m² of approved brand and manufacture including preparing the surface after thorougly cleaning oil, grease, dirt and foreign matter, cost of materials, labour complete as per specifications and as per directions of Engineer-in-charge. (PWD SR 2021-22 Vol -II Pg 47 item no 8.33.3)								
	For window and ventilators Grills	sqm		window qty			12.96		
				ventilator qty			0.45		
	Basic rate							106.00	
	Area weightage 10%							10.60	
	Total						**13.41**	**116.60**	**1563.61**
37	Fabricating, providing and erecting in position Hot dip galvanised Gate. Using 72 X 72 X 4.8mm Sq. GI Pipe Frame with Top pipe bending in heavy duty hydraulic press with sand packing and hot bending to form double arch as per drawing profile, 20mm hot dip galvanised sq. rod for verticals at 150mm c/c, as shown in the drawing including providing hot dip galvanised forged ornamental design in between sq. rods and heads at top, middle and bottom. Intermediate supports of 75X12 mm and 50X6 mm arch bend to hot dip galvanised flats. The work is inclusive of throughing GI flat GI sq. rods, placing, welding all the joints including grinding, finishing metal putty, painting two coats enamel painting. The rate is inclusive of all materials like GI sq. pipe, GI sq. rods, GI forged designs etc., heavy duty hinges are made out of 75mm solid sq. block assembled with 20mm dia bearing in three places for each flop. Heavy Duty Locking arrangements at tow places including cost of labour, painting, erecting charges using hoist pulley cranes with all lead and lift, loading, transportation, unloading, scaffolding charges and all other incidental charges for successful completion of the work as per directions of the Engineer-in-charge of the work. (Data Rate)								
	For Gate,	Sqm	1	1.20		1.50	1.80		
								12475.00	
	Data Rate						**1.80**	**12475.00**	**22455.00**
	Total								

Sl No	Description of Item	Unit	No	L	B	D	Qty	Rate	Amount
38	Providing and laying water proofing treatment to the Roof with PU based single component elastomeric pure polyurethane based coating on New terrace/Chajjas/Sunken portion of WC:Bathroom, cold applied PU waterproofing membrane that is highly elastic with elongation greater than 400% and tensile strength greater than 2MPa as per ASTM D412. The waterproofing membrane to be applied in 2coats @ 1.6kg per m2 to achieve final DFT (dry film thickness) of 1mm including prime coat of epoxy primer @150 g per m2 and protection with 120gsm Geo-textile over the waterproofing membrane. The finished cost to include surface preparation, making coving at Junction, Bore Packing, treatment of construction joints completely as per specification & with a 10 years warranty on product & work from certified manufacturers as per the direction of the Engineer In charge. (PWD SR 2021-22 Vol -II Pg 133 item no 15.1)								
	Terrace	Sqm	1.00	11.70	4.30		50.31		
	Basic rate							745.00	
	Area weightage 10%							74.50	
	Total						**50.31**	**819.50**	**41229.05**
39	Providing and placing on terrace(at all floor levels), polyethylene water storage tanks as per IS 12701 marked,with cover and suitable locking arrangement and making necessary holes for inlet,outlet and overflow pipes but without fittings and the base support for tank(For 1000 litre capacity) (PWD SR 2021-22 1st Corrigenda Vol II.Sl No.12.Item No 13.34).								
	Sintex								
		ltr	1000				1000.00		
								8.00	
	Basic rate							0.80	
	Area weightage 10%						**1000.00**	**8.80**	**8800.00**
	Total								
40	Providing and fixing water closet squatting pan (Indian type W.C. pan) with 100 mm sand cast Iron P or S trap, 10 litre low level white P.V.C. flushing cistern, including flush pipe, with manually controlled device (handle lever) conforming to IS : 7231, with all fittings and fixtures complete, including cutting and making good the walls and floors wherever required:White Vitreous china Orissa pattern W.C. pan of size 580x440 mm with integral type foot rests (PWD SR 2021-22 Vol -II Pg 123 item no 14.1.1)								
	WC Pan	Each	2				2.00		
								4246.00	
	Basic rate							**424.60**	
	Area weightage 10%						**2.00**	**4670.60**	**9341.20**
	Total								
41	PTMT grating 100 mm dia.(PWD SR 2021-22 Vol II. PgNo.A-26 Item No 470)								
	Grating	Each	4				4.00		
								16.00	
	Basic rate							**1.60**	
	Area weightage 10%						**4.00**	**17.60**	**70.40**
	Total								
42	White Vitreous china flat back wash basin 550x400 mm each 550.00 (PWD SR 2021-22 Vol II. PgNo A-32.Item No 674)								
	Wash Basin	Each	2				2.00		
								550.00	
	Basic rate							**55.00**	
	Area weightage 10%						**2.00**	**605.00**	**1210.00**
	Total								

Sl No	Description of Item	Unit	No	L	B	D	Qty	Rate	Amount
43	Providing and fixing brass bib cock of approved quality : 20 mm nominal bore (PWD SR 2021-22 Vol II. PgNo 115.Item No 13.2.2)								
	Bib Cock	Nos.	4				4.00		
	Basic rate							345	
	Area weightage 10%							34.50	
	Total						**4.00**	**379.50**	**1518.00**
44	Providing and fixing brass stop cock of approved quality : 20 mm nominal bore (PWD SR 2021-22 Vol II. PgNo 115.Item No 13.3.2)								
	Stop Cock	Nos.	2				2.00		
	Basic rate							345	
	Area weightage 10%							34.50	
	Total						**2.00**	**379.50**	**759.00**
45	Providing and fixing ball valve (brass) of approved quality, High or low pressure, with plastic floats complete : 20 mm nominal bore (PWD SR 2021-22 Vol II. PgNo 115.Item No 13.5.2)								
	Valve	Nos.	2				2.00		
	Basic rate							360	
	Area weightage 10%							36.00	
	Total						**2.00**	**396.00**	**792.00**
46	Providing and fixing Chorinated Poly Venyl Chloride (CPVC) pipes conforming to IS 15778, having thermal stability for hot and cold water supply including all CPVC plain and brass threaded fittings including fixing the pipe with clamp at 1.00 mtr spacing. This includes jointing of pipes and fittings with one step CPVC solvent cement & the cost of cutting chases & making good the same including testing of joints complete. (Concealed work including cutting chases and good the walls etc.,) 20mm nominal dia pipes (PWD SR 2021-22 1st Corrigenda Vol II. SL No. 10 .Item No 13.32.2)								
	Pipe	m	23				23.00		
	Basic rate							373	
	Area weightage 10%							37.30	
	Total						**23.00**	**410.30**	**9436.90**
47	Providing and fixing on wall face unplasticised rigid PVC rain water pipes conforming to IS:13592 Type A, including jointing with seal ring conforming to IS:5382, leaving 10mm gap for thermal expansion, [i] single socketed pipes 100mm diameter (PWD SR 2021-22 1st Corrigenda Vol II. SL No. 27 .Item No 13.48)								
	Rain Water pipes	m	14.4				14.40		
	Basic rate							253	
	Area weightage 10%							25.30	
	Total						**14.40**	**278.30**	**4007.52**

Sl No	Description of Item	Unit	No	L	B	D	Qty	Rate	Amount
								Total Amount	2118550.36
								GST Charges (18% of estimated cost)	381339.1
								Miscellaneous and Rounding off	110.6
								Grand Total	2500000.00

CERTIFICATE:

1) The work spot has been inspected and found to be necessary
2) The work spot comes under B.B.M.P
3) The provisions made in the estimate are necessary and minimum.
4) The estimate is based on S.R of 2021-2022 and approved rates.

Administrative Approval
Accorded For 25.00 Lakhs
Head of A/C P.3726
CER NO : 29 22/8/22
TA CE (YUC)

Technical Sanction
Accorded For 25.00 Lakhs
Head of A/C P.3726
CER NO : 63 Dt: 23/8/22

Assistant Engineer
BBMP

Assistant Executive Engineer
BBMP

Executive Engineer
BBMP